



Turning Goals Into Reality 2003

Space Transportation to Meet NASA's Needs

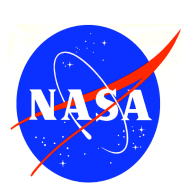
Moderator: **Row Rogacki**
 Director, NASA Space Technology Theme

Panelists: **Jim Snoddy, DART Project Manager**
 Orbital Space Plane Program Office

Steve Cook, Deputy Manager
Next Generation Launch Technology Program

Ray Taylor, Chief Systems Engineer
Project Prometheus

Don Brownlee, Director, Washington Operations
Aerojet

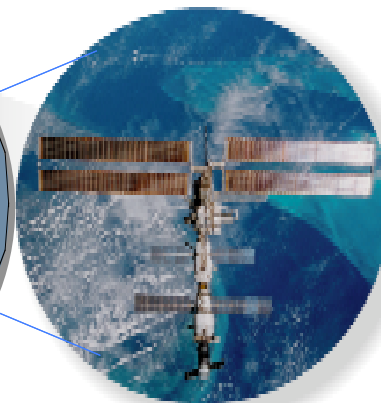


Tight Coupling Among Research, Station, Shuttle & SLI

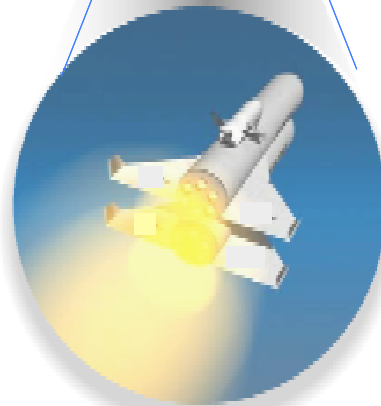
***Space
Shuttle***



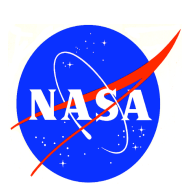
***Space
Station***



***Enable
Humans
to Support
Breakthrough
Research in
Space***



***Space Launch
Initiative***



Programs Addressed by FY 2003 Budget Amendment

INTERNATIONAL SPACE STATION



SPACE
STATION
PROGRAM



BIOLOGICAL
& PHYSICAL
RESEARCH

FY 2003
Budget
Amendment

\$6.6B
Fully Funds
Cost
Estimate

\$90M
Positions Development
Beyond
Core Complete

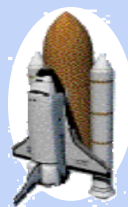
\$1.8B
Supports
Research
on Station

Adds
Fifth
Launch/Yr
\$15.2B

Extends Shuttle
Life into
Next Decade
\$1.6B

Pursues Crew
Return and
Transfer
\$2.4B

Develops
Critical New
Technologies
\$2.4B



Operations



Life
Extension
Program



Orbital
Space
Plane

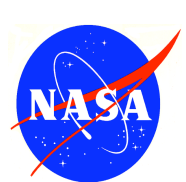


Next
Generation
Launch
Technology

SPACE SHUTTLE

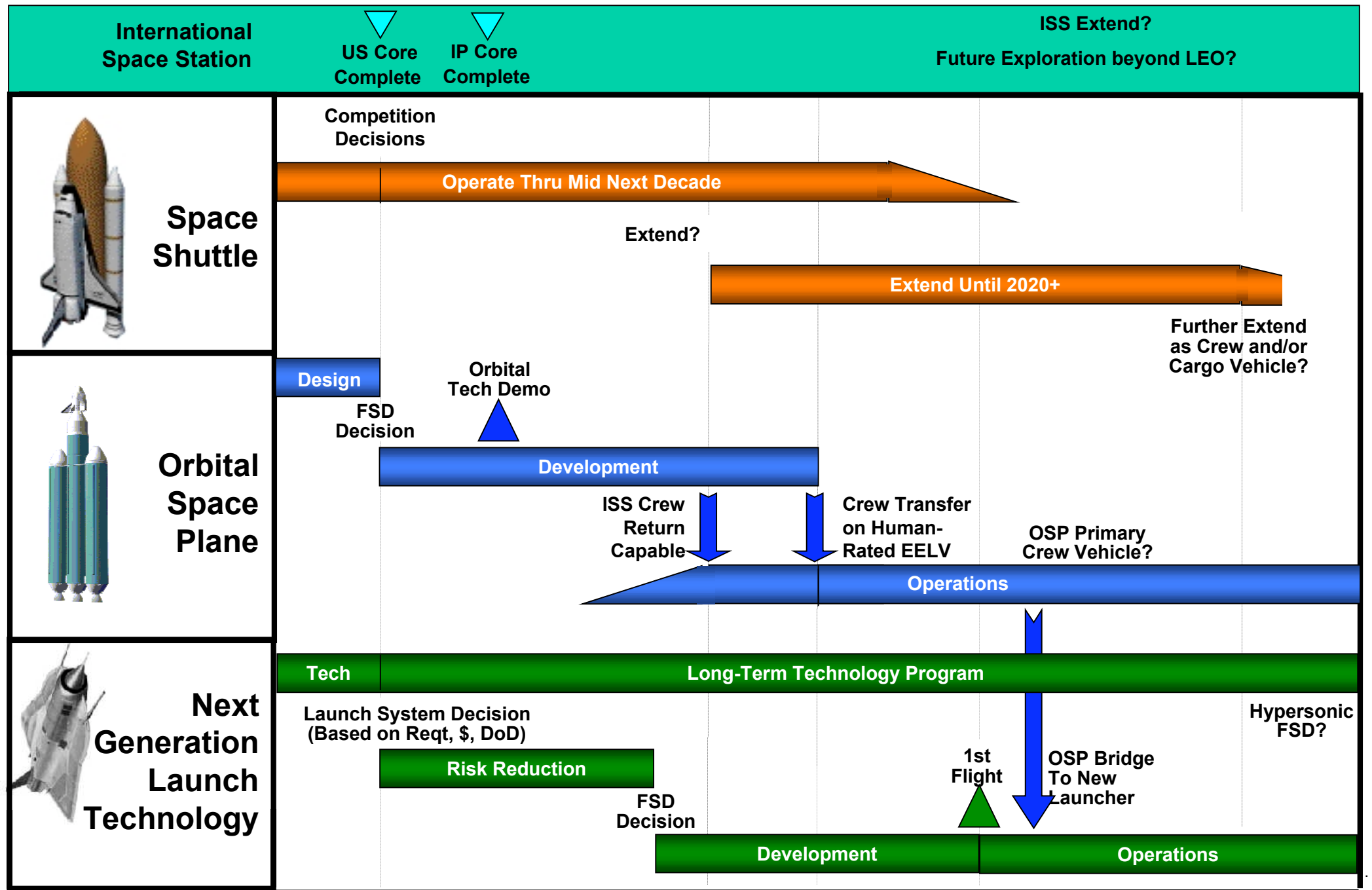
SPACE LAUNCH INITIATIVE

INTEGRATED SPACE TRANSPORTATION PLAN



New Integrated Space Transportation Plan

02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22





Space Launch Initiative

Theme Objectives



**Assure Access
& Return from
ISS**



**Improve Space
Transportation
Safety, Reliability,
Affordability**

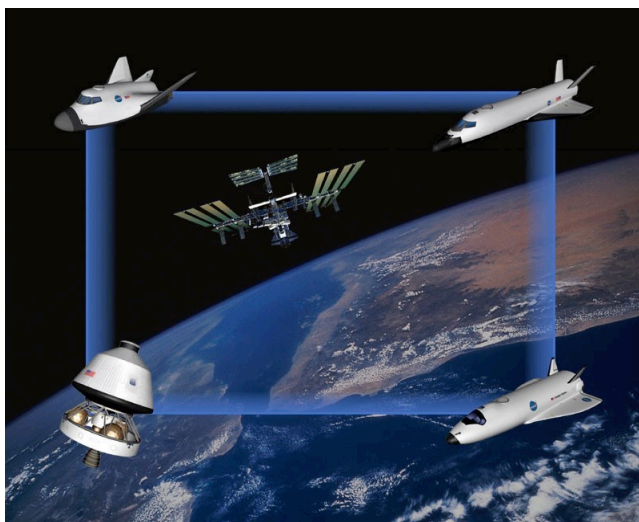


**Enhance
the
Nation's
Security**



**Create
Innovative
Approaches**

Programs



Orbital Space Plane



Next Generation Launch Technology



National Aerospace Initiative

NASA SLI Lending Critical Support



**High Speed
Hypersonics**



**Space
Access**

*Reusable
Airbreathing
Stages*



**Space
Technology**

Twenty-five Year National Technology Plan to Mature Key Technologies for NASA and Department of Defense Needs